

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

04/18/2011

Sean Griffith  
Assistant District Attorney, Middlesex County

Dear ADA Griffith,

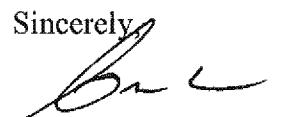
Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Dookhan & Della Saunders.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Della Saunders was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

  
Annie Khan (Dookhan)  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6631  
[Annie.Khan@state.ma.us](mailto:Annie.Khan@state.ma.us)

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

*The Commonwealth of Massachusetts*  
*Executive Office of Health and Human Services*  
*Department of Public Health*  
*State Laboratory Institute*

Boston Drug Laboratory  
Tel (617) 983-6622  
Fax (617) 983-6625

Amherst Drug Laboratory  
Tel (413) 545-2601  
Fax (413) 545-2608

Boston Hours

8:00 – 11:00  
2:00 – 4:00

Amherst Hours  
9:00 – 12:00  
1:00 – 3:00

**DRUG RECEIPT**

City or Department: LOWELL

Police Reference No.: [REDACTED]

Name and Rank of Submitting Officer: DET. BRYAN W. MCMAHON

Defendant(s) Name (last, first, initial):  
[REDACTED]

*To be completed by Submitter*

Description of Items Submitted

*To be completed by Lab Personnel*

Gross Weight

Lab Number

<u>PB<sup>W</sup>/POWDER - COCAINE - 1</u>	<u>80</u> <u>15.23g</u>	<span style="background-color: black; color: black;">[REDACTED]</span>
<u>PB<sup>W</sup>/FINGER" HEROIN - 1</u>	<u>6.55g</u>	<span style="background-color: black; color: black;">[REDACTED]</span>

Received by: BIA

Date: 9-24-09

## Curriculum Vitae

### Annie Khan (Dookhan)

#### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.  
University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

#### **Experience:**

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of all analytical instruments.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Responsible for the Quality Control/Quality Assurance program for the drug lab.

\*Notary Public.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

#### **Additional Training:**

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

#### **Association:**

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Della Saunders

### Education:

Boston University Boston, MA. Bachelors of Arts in Chemistry 1982

### Experience:

1985-present: Currently Chemist III Massachusetts Department of Public Health Drug Analysis Laboratory at State Laboratory Institute Boston, MA. Responsible for analyzing unknown substances submitted by Massachusetts law enforcement agencies; operating, maintaining, and interpreting data from analytical equipment (analytical balance, microscope, gas chromatogram, ultraviolet spectrometer, infrared spectrometer, gas chromatogram/mass spectrometer); training junior level chemists; providing expert testimony to local, state, and federal courts in the Commonwealth of Massachusetts.

1984-1985: Laboratory Technician in the Media Laboratory at State Laboratory Institute Boston, MA. Responsible for making chemical reagents and media plates; operating and maintaining laboratory equipment (autoclave, pH meter, ultra-violet hood), and collecting safety data for laboratory protocols.

### Training:

1985: Six week training with Senior Staff at Massachusetts Department of Public Health (MDPH) Drug Analysis Laboratory Boston, MA. Appointed Assistant Analyst MDPH

1987: One week training course in drug analysis given by the Federal Drug Enforcement Agency (DEA) McLean, VA.

1992: Training in Gas Chromatograph/Mass Spectroscopy (GC/MS) Hewlett Packard (Agilent)

1996: Training in Fourier Transform Infra-Red Spectroscopy ETA (Analect)

2001: Expert Witness Workshop National Laboratory Training network Quality Assurance/Quality Control Training (MDPH)

2002: Techniques of Supervision Training (MDPH)

1999: Notary Public Commonwealth of Massachusetts

No. [REDACTED]

Date Analyzed: NOV 11 2009

City: Lowell Police Dept.

Officer: Detective BRYAN MCMAHON

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 09/24/2009

No. Analyzed:

Gross Wt.: 15.23

Net Weight: 14.00

# Tests: 6 *b430*

*b430*

Prelim: cocaine

Findings:

*COCAINE*

No. [REDACTED]

Date Analyzed: NOV 11 2009

City: Lowell Police Dept.

Officer: Detective BRYAN MCMAHON

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 09/24/2009

No. Analyzed:

Gross Wt.: 6.55

Net Weight: 5.14

# Tests: 4 *b430*

*b430*

Prelim: Heroin

Findings: *heroin*

# DRUG POWDER ANALYSIS FORM

SAMPLE # XXXXXXXXXX AGENCY Lowell ANALYST AS9

No. of samples tested: \_\_\_\_\_ Evidence Wt. \_\_\_\_\_

PHYSICAL DESCRIPTION: Gross Wt ( ): 14.44490

White powdered substance Gross Wt ( ): \_\_\_\_\_

17.25 Pkg. Wt: \_\_\_\_\_

Net Wt: 14.0014

Net-net = 13.9935

Mettler AB104 1117132502

Dishes N.W.D. 1125443269

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate (+)

Marquis —

Froehde's —

Mecke's —

### Microcrystalline Tests

Gold  
Chloride +

TLTA (+)

### OTHER TESTS

—  
—  
—  
—

## PRELIMINARY TEST RESULTS

RESULTS NO OCCURS

DATE 11-11-09

## GC/MS CONFIRMATORY TEST

RESULTS NO OCCURS

MS  
OPERATOR DCS

DATE 11-11-09

# DRUG POWDER ANALYSIS FORM

SAMPLE # XXXXXXXXXX AGENCY Lowell ANALYST ADG

No. of samples tested: \_\_\_\_\_ Evidence Wt. \_\_\_\_\_

PHYSICAL DESCRIPTION: Gross Wt ( ): 5.5973

Beige chunky substance  
in 1 pb

Gross Wt ( ): \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

wax paper + pb

Net Wt: 5.1468

Net wt = 5.1382

Mettler AB104 1117132302  
Ounces N.D.I.O 1125493269

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate (+)

### Microcrystalline Tests

Gold  
Chloride \_\_\_\_\_

Marquis (+)

TLTA (-)

Froehde's (+)

### OTHER TESTS

Mecke's (+)

## PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 11-11-09

## GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS  
OPERATOR DGS

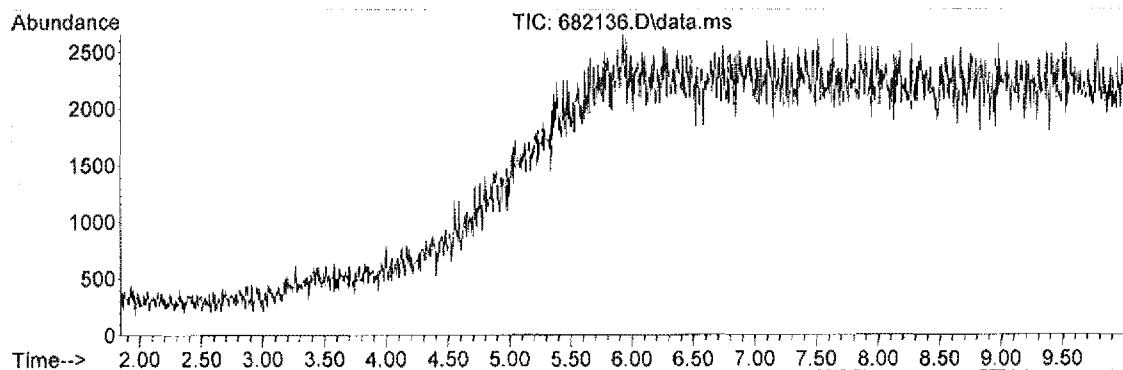
DATE 11-11-09

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Information from Data File:

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Operator : DCS  
Date Acquired : 10 Nov 2009 16:53  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

✓ Shalini PRR

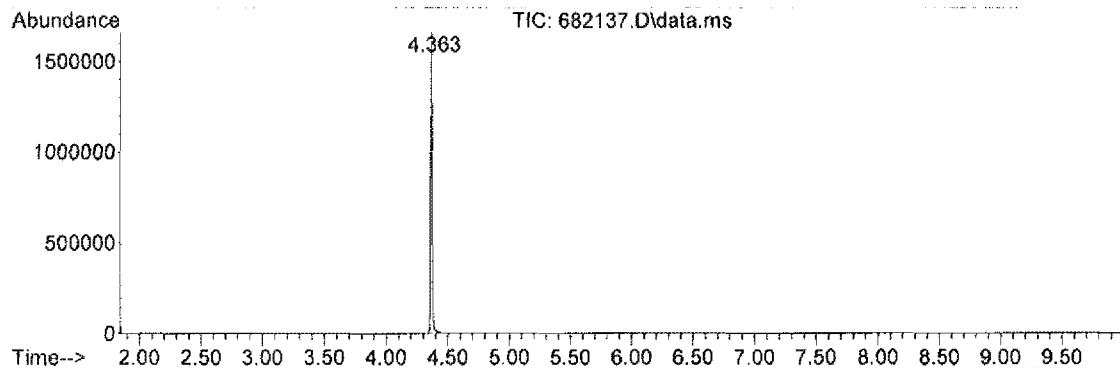
Area Percent / Library Search Report

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Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11\_10\_09\682137.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 17:06  
Sample Name : COCAINE STANDARD  
Submitted by :  
Vial Number : 37  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
4.363	1490657	100.00	100.00

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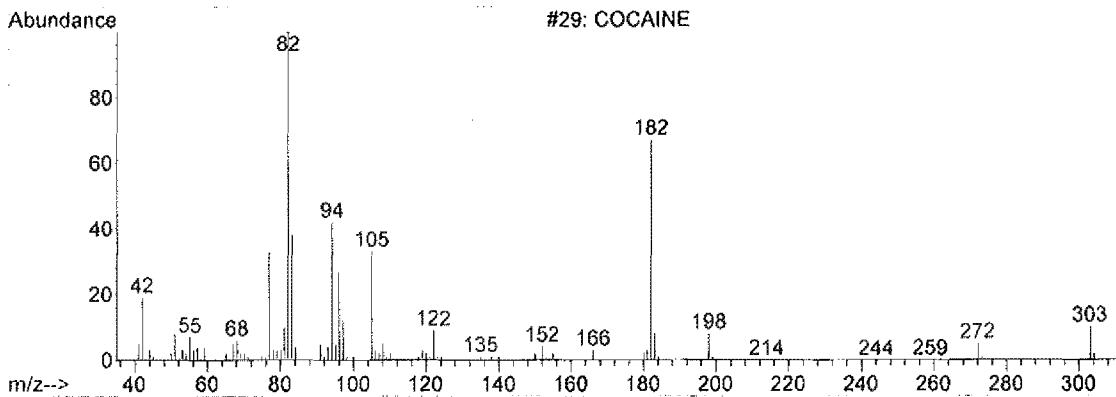
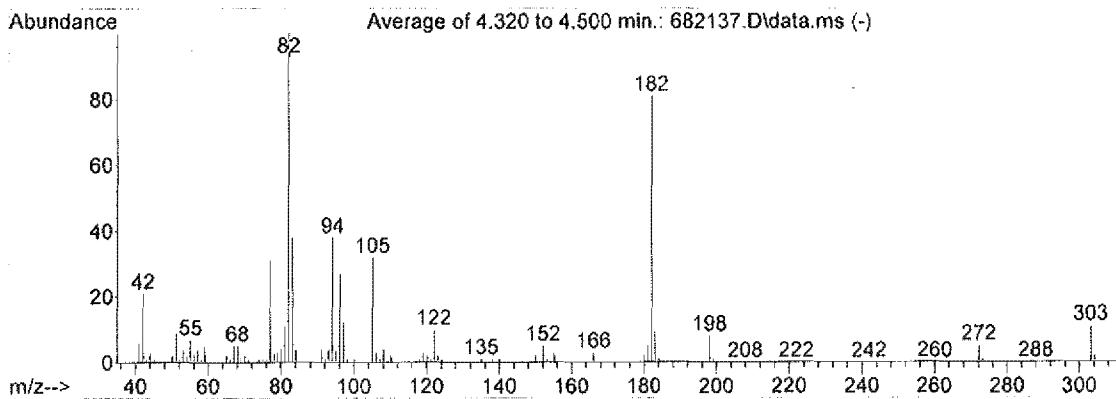
Area Percent / Library Search Report

Information from Data File:

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Operator : DCS  
Date Acquired : 10 Nov 2009 17:06  
Sample Name : COCAINE STANDARD  
Submitted by :  
Vial Number : 37  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 70  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
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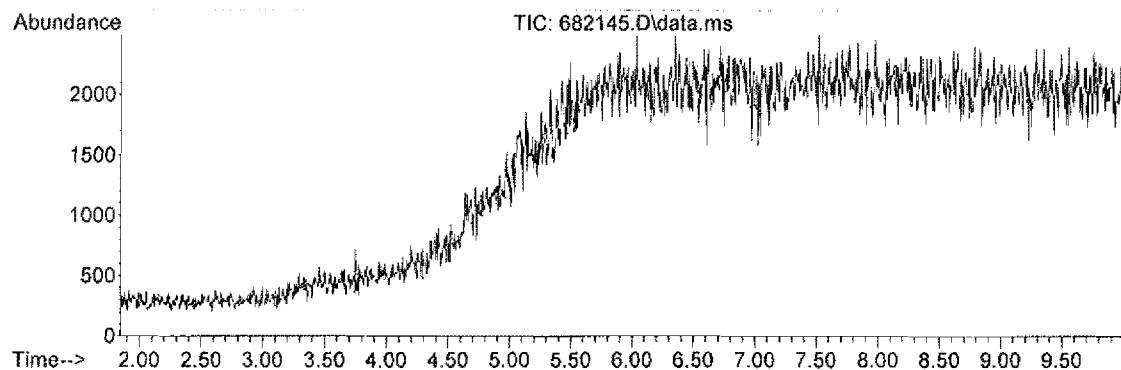


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Operator : DCS  
Date Acquired : 10 Nov 2009 18:47  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

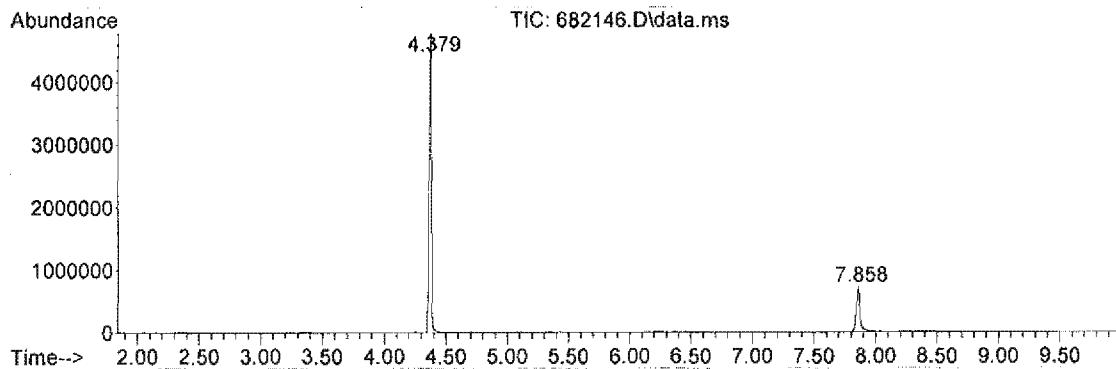
Area Percent / Library Search Report

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Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11\_10\_09\682146.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 18:59  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 46  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
4.379	6363927	79.40	100.00
7.858	1650876	20.60	25.94

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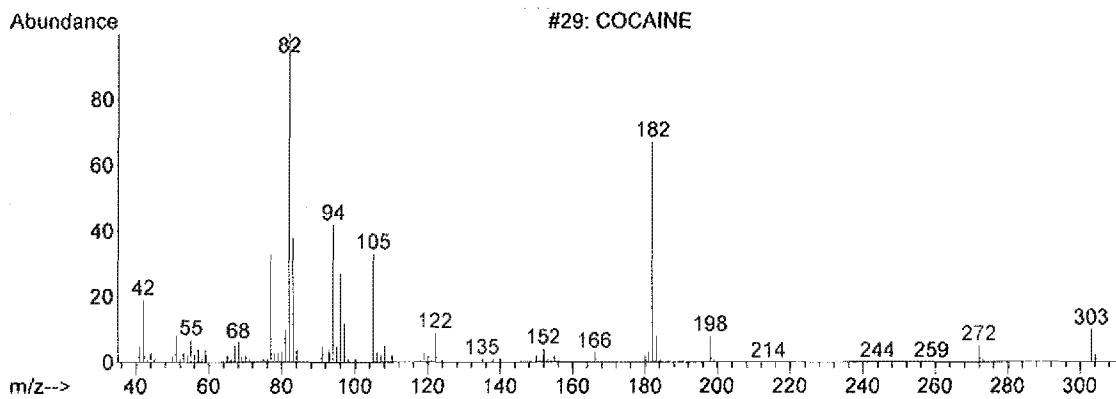
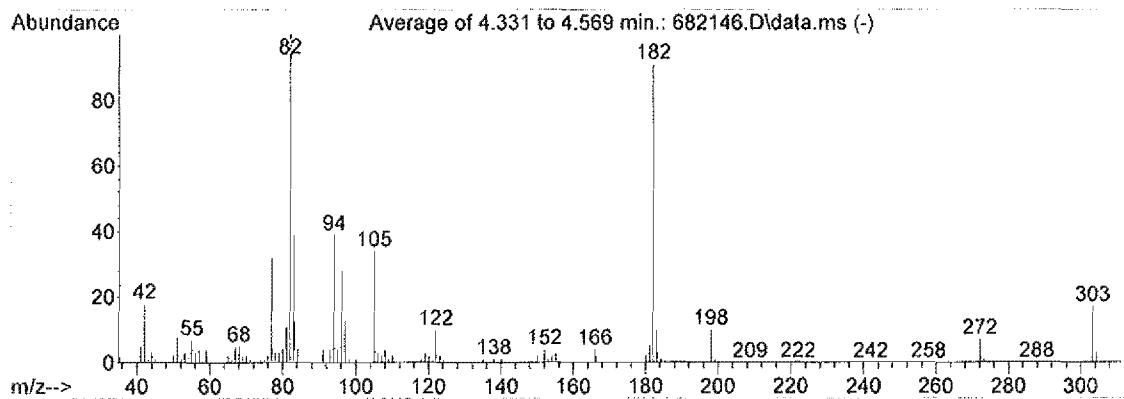
Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11\_10\_09\682146.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 18:59  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 46  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 70  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.38	C:\Database\SLI.L COCAINE	000050-36-2	99



# Area Percent / Library Search Report

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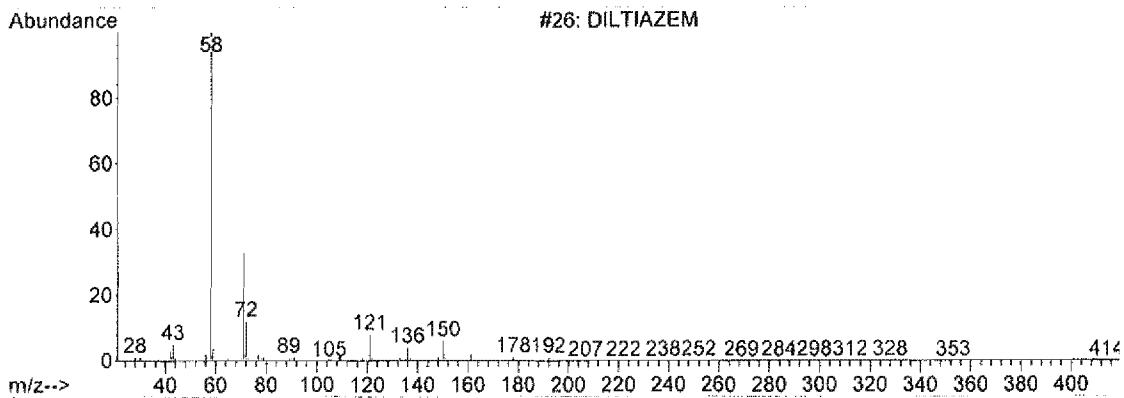
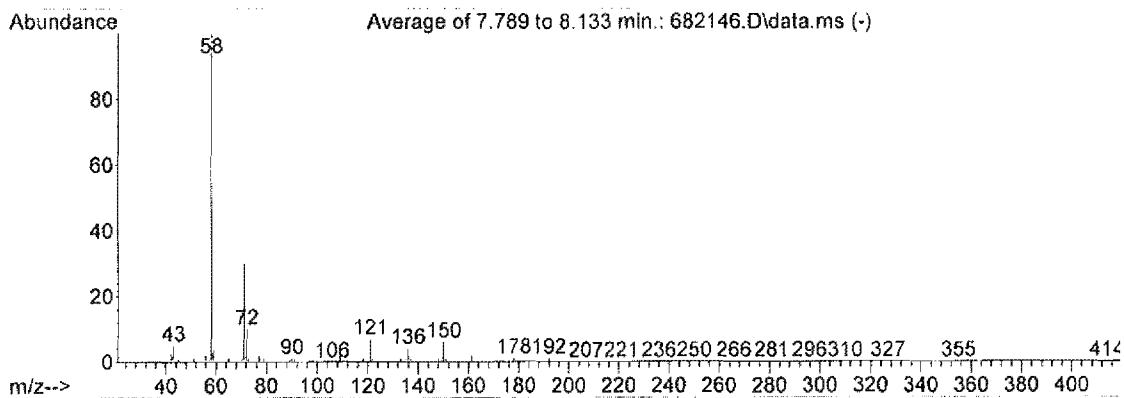
**Information from Data File:**

File Name : E:\Q4-2009\SYSTEM7\11\_10\_09\682146.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 18:59  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 46  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 70  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	7.86	C:\Database\SLI.L		
		DILTIAZEM	033286-22-5	91
		3,4-MDMA	042542-10-9	50
		CITALOPRAM	059729-33-8	2

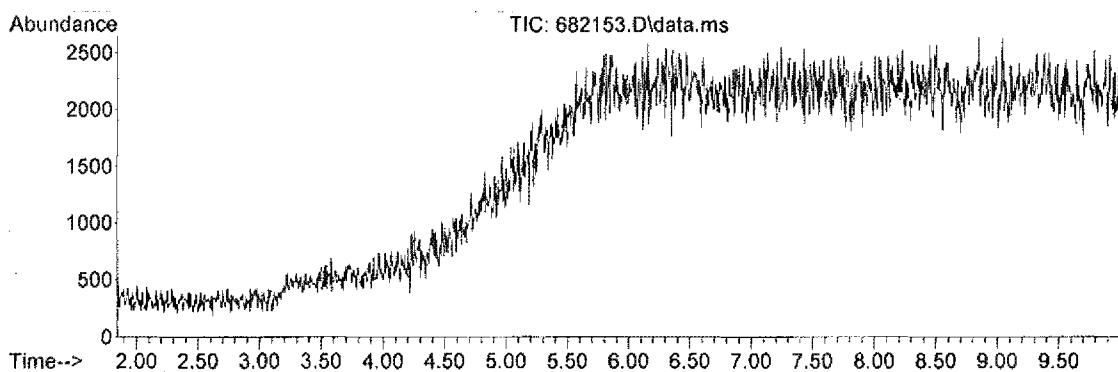


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Operator : DCS  
Date Acquired : 10 Nov 2009 20:28  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

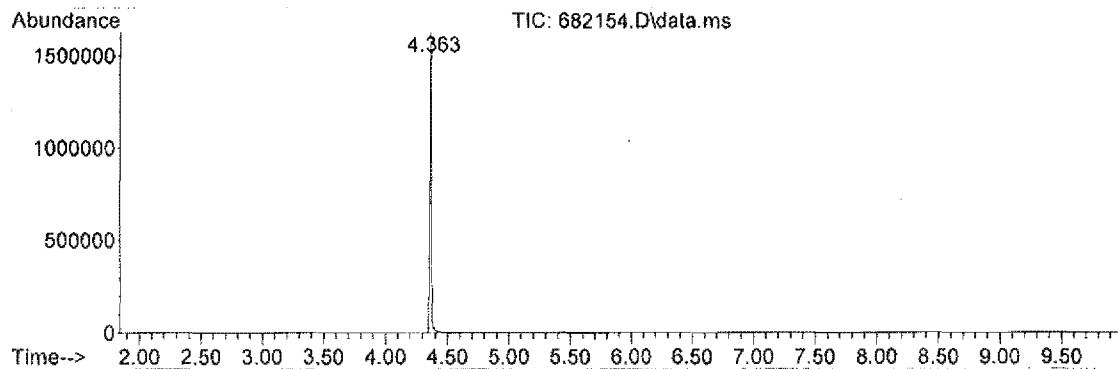
Area Percent / Library Search Report

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Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11\_10\_09\682154.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 20:41  
Sample Name : COCAINE STANDARD  
Submitted by :  
Vial Number : 54  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
4.363	1460563	100.00	100.00

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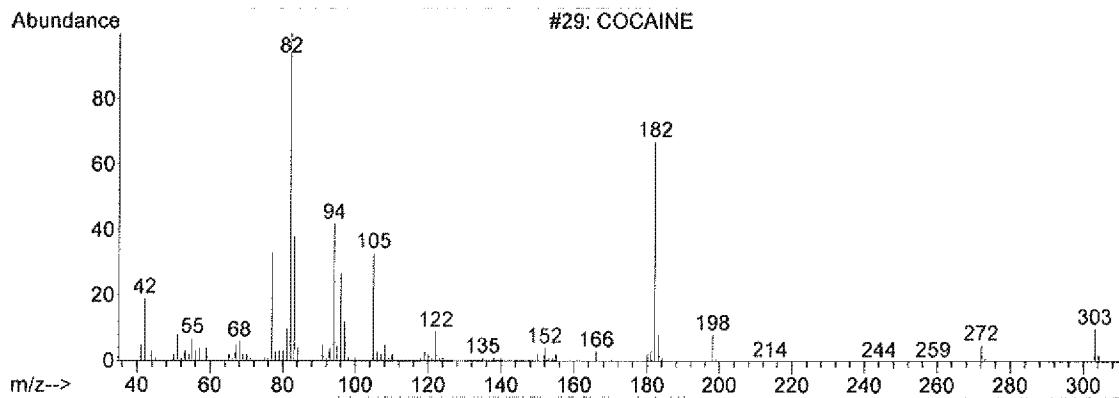
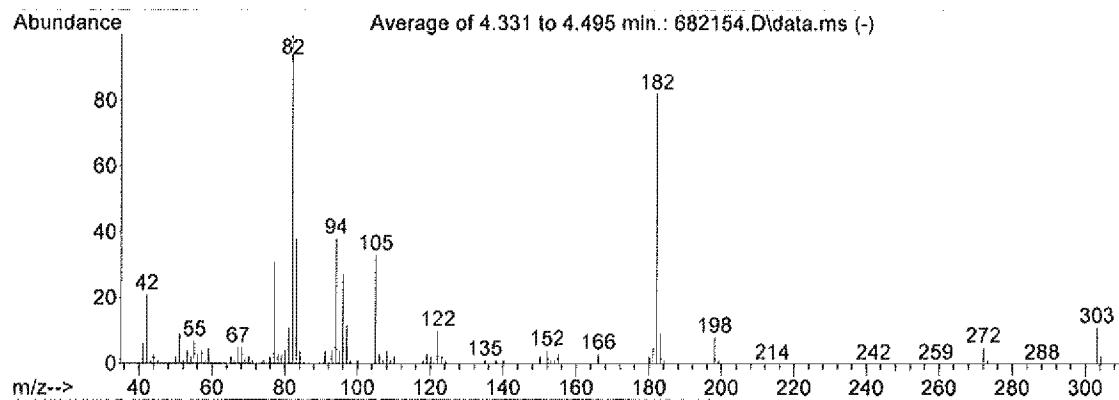
# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\Q4-2009\SYSTEM7\11\_10\_09\682154.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 20:41  
Sample Name : COCAINE STANDARD  
Submitted by :  
Vial Number : 54  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 70  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.36	C:\Database\SLI.L COCAINE	000050-36-2	99



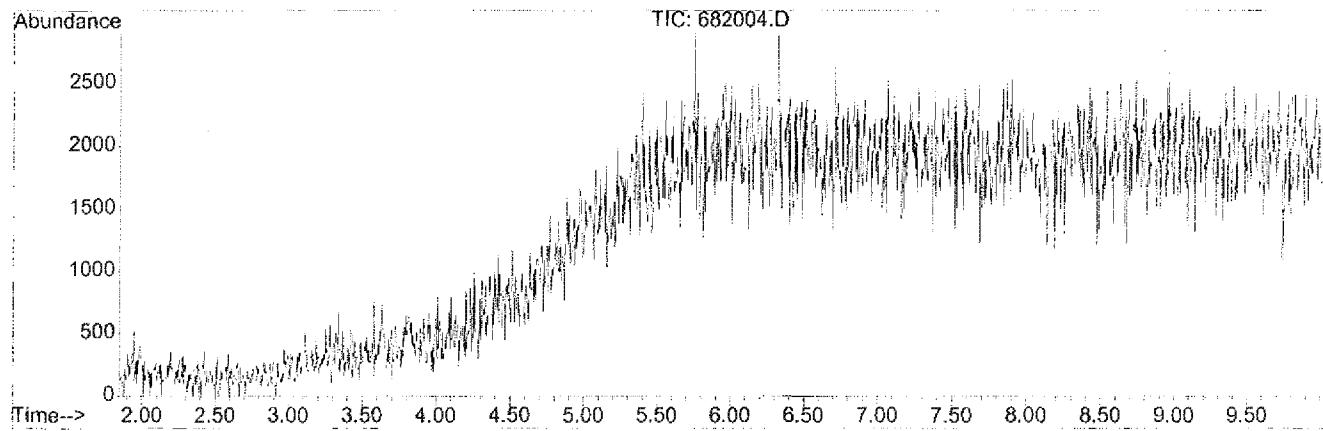
Area Percent / Library Search Report

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Information from Data File:

File Name : E:\Q4-2009\SYSTEM4\11\_10\_09\682004.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 9:57  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

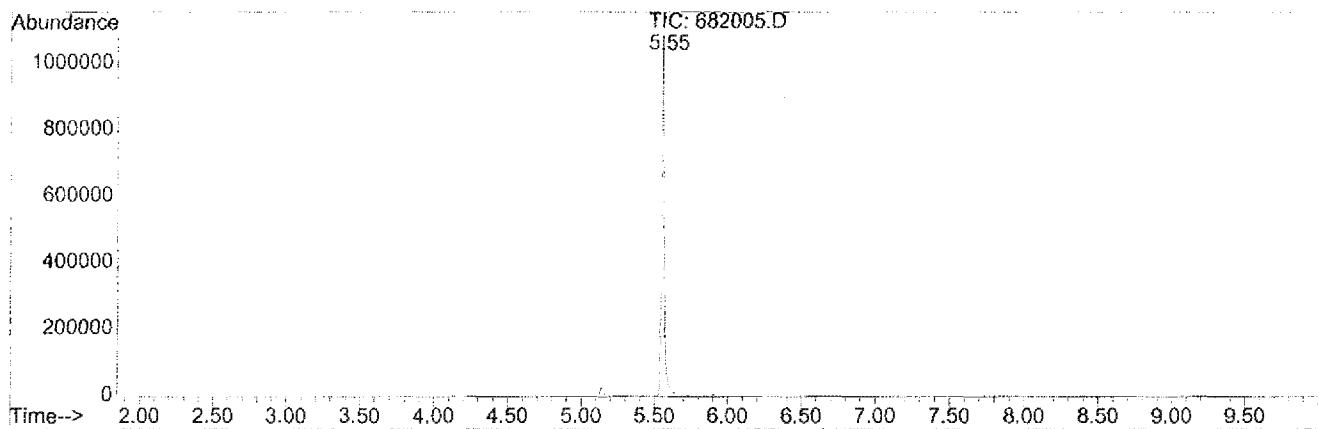
# Area Percent / Library Search Report

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Information from Data File:

File Name : E:\Q4-2009\SYSTEM4\11\_10\_09\682005.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 10:10  
Sample Name : HEROIN STANDARD  
Submitted by :  
Vial Number : 5  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
5.554	1402099	100.00	100.00

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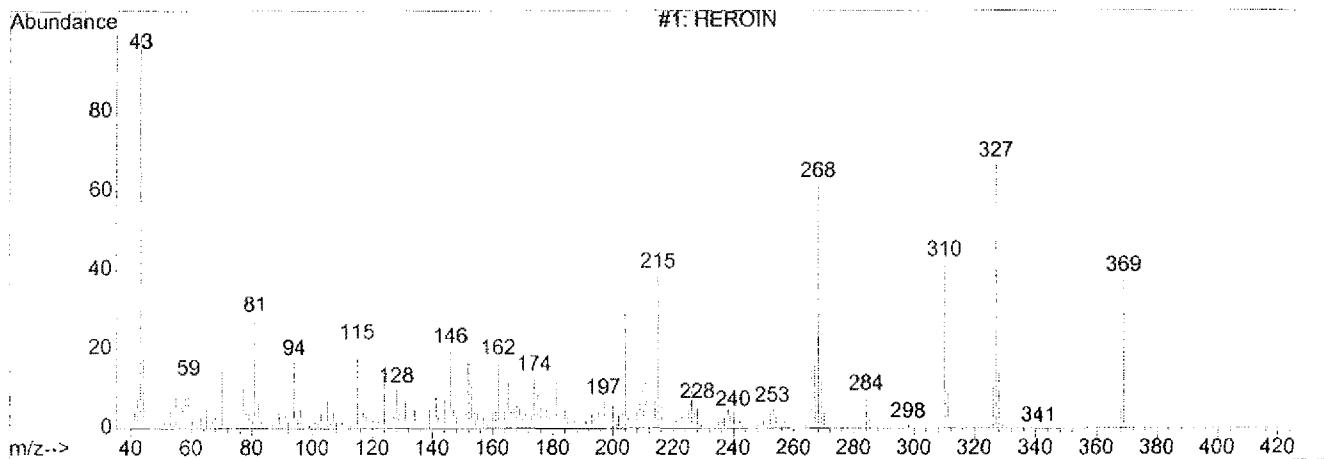
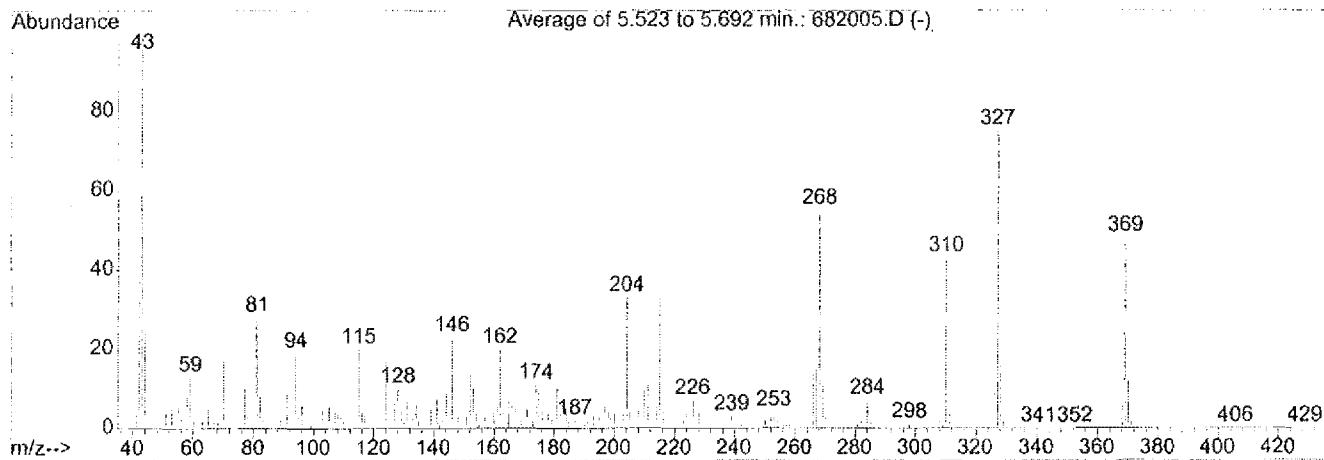
# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\Q4-2009\SYSTEM4\11\_10\_09\682005.D  
 Operator : DCS  
 Date Acquired : 10 Nov 2009 10:10  
 Sample Name : HEROIN STANDARD  
 Submitted by :  
 Vial Number : 5  
 AcquisitionMeth: DRUGS  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
 C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	5.55	C:\DATABASE\SLI.L HEROIN	000561-27-3	96



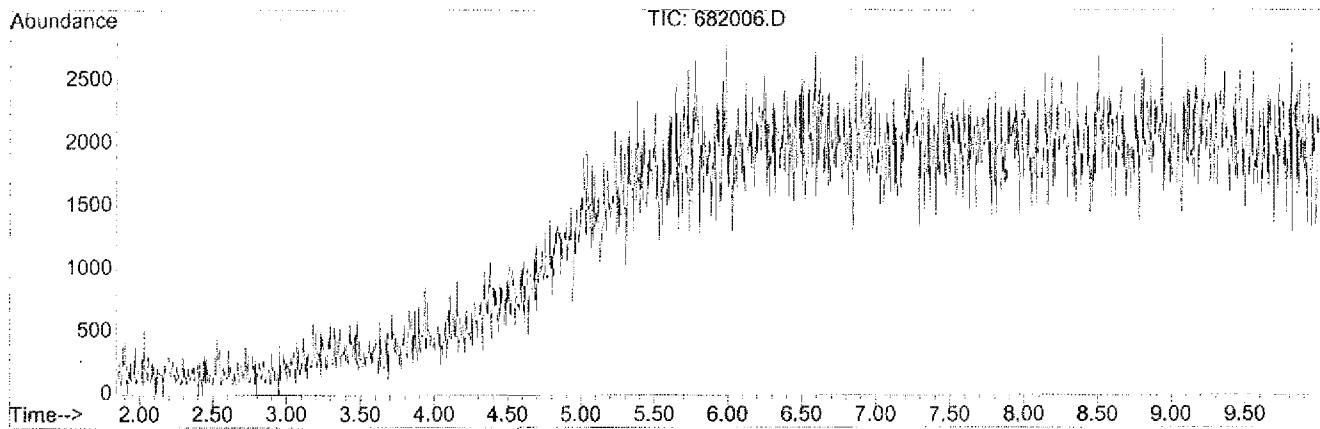
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\Q4-2009\SYSTEM4\11\_10\_09\682006.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 10:24  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

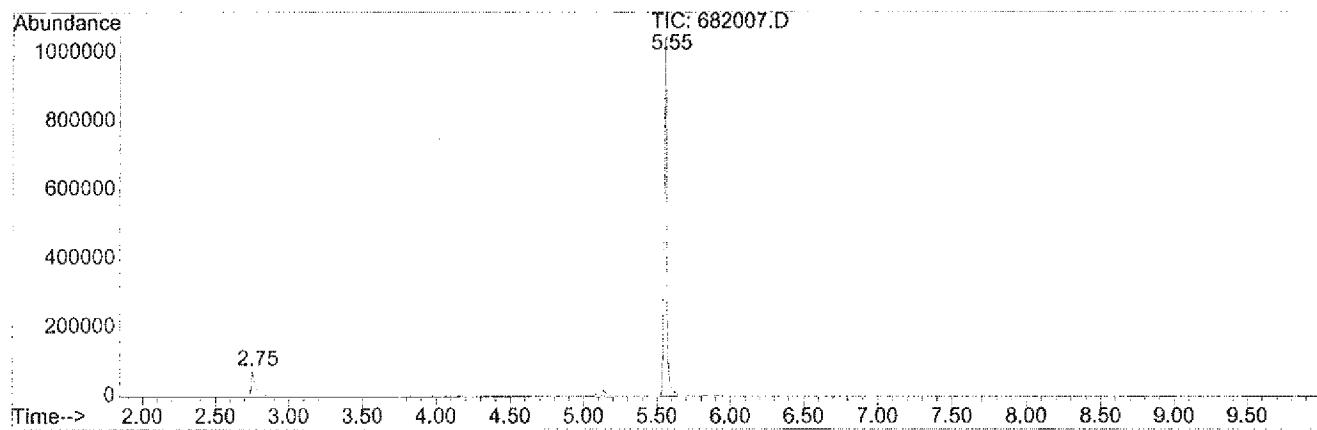
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\Q4-2009\SYSTEM4\11\_10\_09\682007.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 10:37  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
2.748	153015	10.73	12.02
5.551	1273143	89.27	100.00

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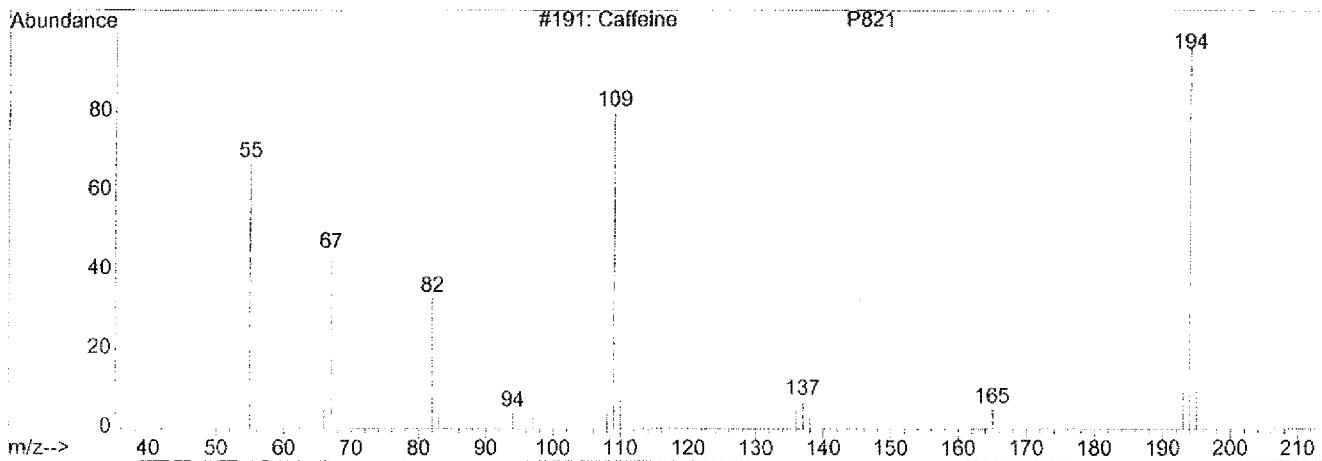
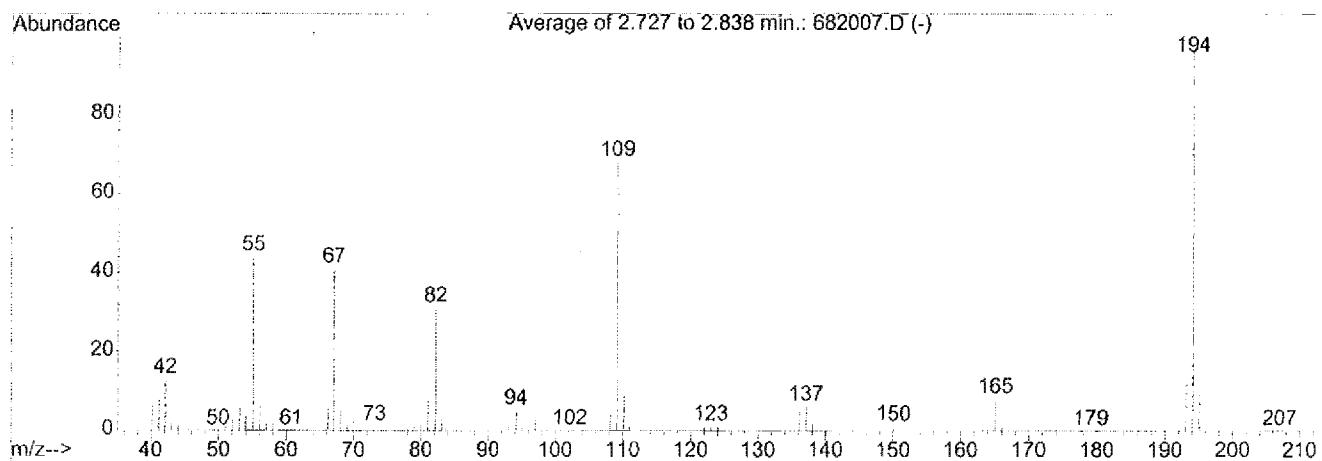
# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\Q4-2009\SYSTEM4\11\_10\_09\682007.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 10:37  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	2.75	C:\DATABASE\PMW_TOX2.L		
		Caffeine	000058-08-2	96
		Endogenous biomolecule 2AC	000000-00-0	9
		Formetanate -C2HNO	000000-00-0	9



# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\Q4-2009\SYSTEM4\11\_10\_09\682007.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 10:37  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS  
Integrator : RTE

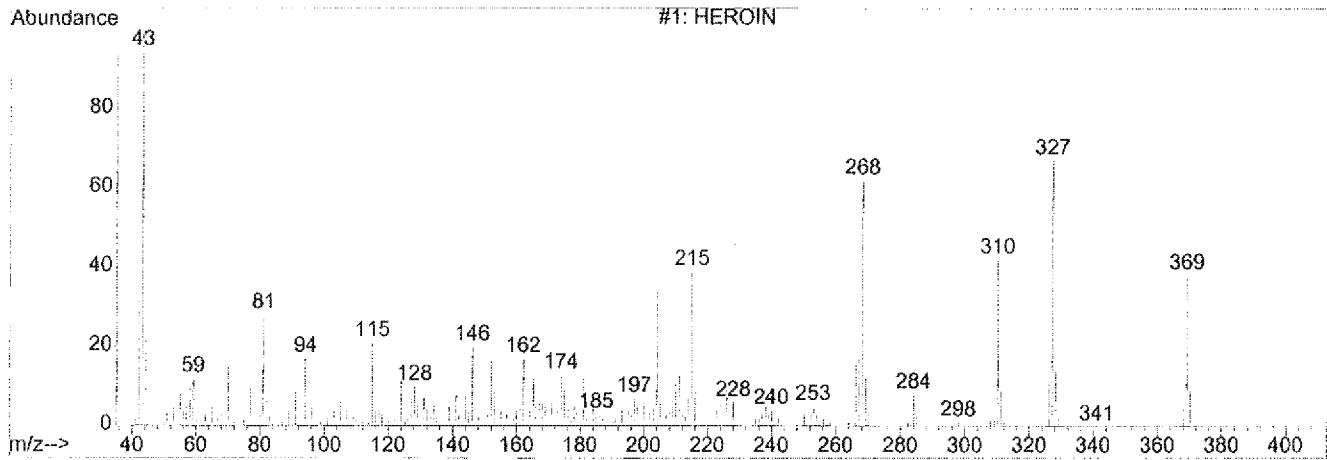
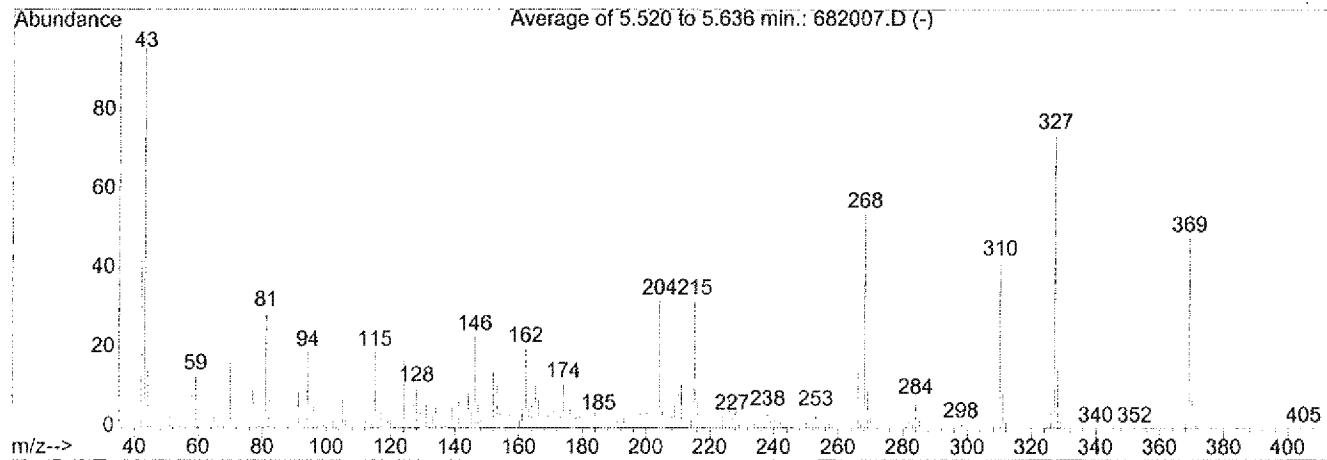
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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

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PK#	RT	Library/ID	CAS#	Qual
2	5.55	C:\DATABASE\SLI.L HEROIN	000561-27-3	99

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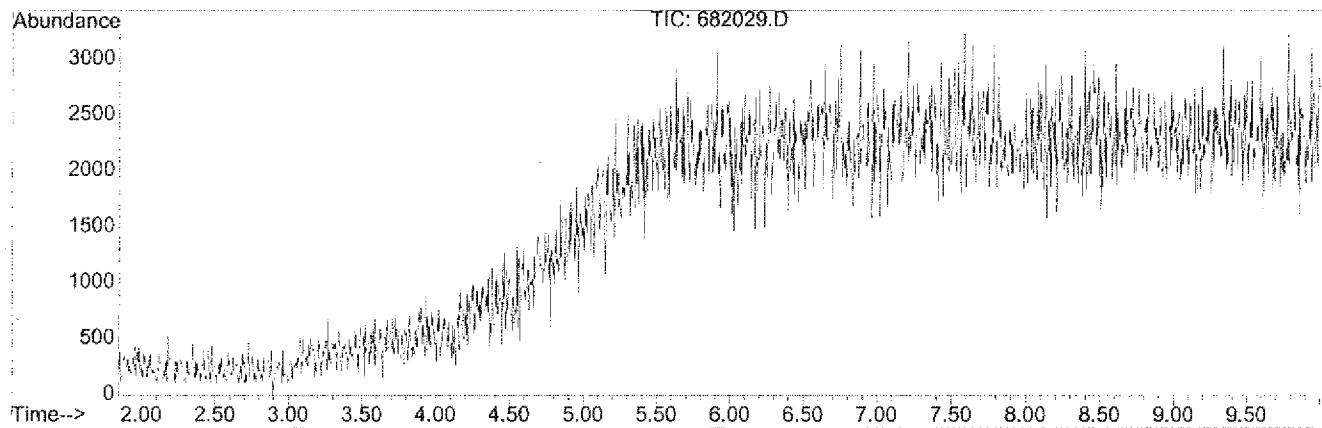
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\Q4-2009\SYSTEM4\11\_10\_09\682029.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 15:38  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

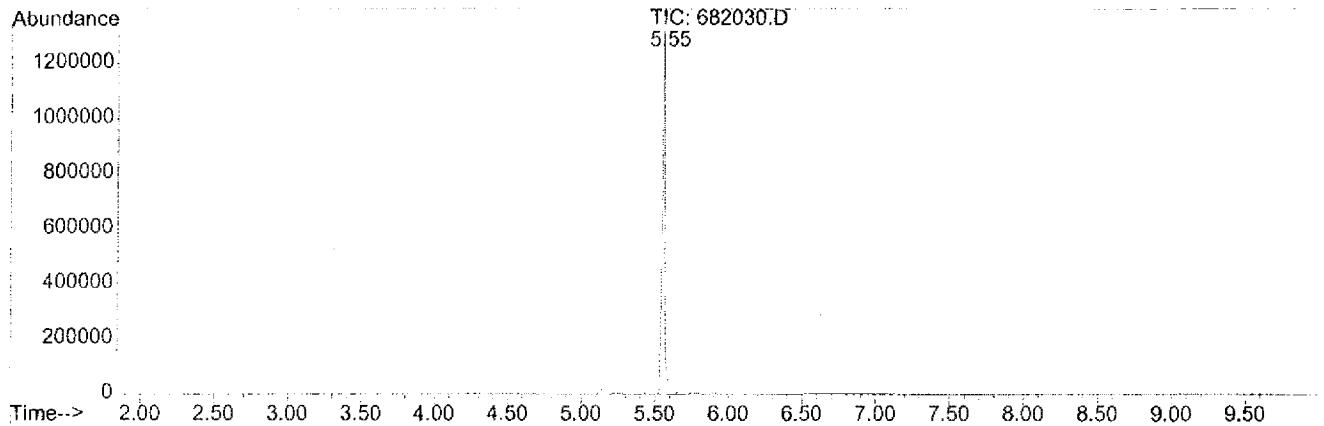
# Area Percent / Library Search Report

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Operator : DCS  
Date Acquired : 10 Nov 2009 15:52  
Sample Name : HEROIN STANDARD  
Submitted by :  
Vial Number : 30  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
5.554	1600372	100.00	100.00

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# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\Q4-2009\SYSTEM4\11\_10\_09\682030.D  
Operator : DCS  
Date Acquired : 10 Nov 2009 15:52  
Sample Name : HEROIN STANDARD  
Submitted by :  
Vial Number : 30  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	5.55	C:\DATABASE\SLI.L HEROIN	000561-27-3	99

